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- 24. (New) The method of claim 1 wherein the header of the third ATM cell further includes information indicative of the number of partially filled ATM cells contained within the third ATM cell.
- 25. (New) The ATM network of claim 14 wherein the header of the merged cell further includes information indicative of the number of partially filled ATM cells contained within the third ATM cell.
- 1 26. (New) The ATM cell of claim 21 wherein the header of the ATM cell further includes
- 2 information indicative of the number of partially filled ATM cells that contributed to the
- 3 information within the payload.

IN THE ABSTRACT

Please amend the abstract to read as follows:

--First and second partially filled ATM cells are removed from a cell stream and merged into a third ATM cell. The third ATM cell may then be inserted back into the cell stream. The third ATM cell may include header information indicative of the number of partially filled ATM cells from which it was created. To accommodate these operations, a data communication device, such as an ATM switch, is configured to identify partially filled ATM cells within an ATM cell stream. The device is also configured to merge at least two of the partially filled ATM cells into a merged ATM cell and to insert the merged ATM cell back into the ATM cell stream. Identifying partially filled ATM cells may involve use of a lookup table stored in a computer readable medium and indexable using logical connection identification information. The scheme can be used on a link-by-link basis within an ATM network or across multiple hops within such a network for combining cells traveling along a common route. The scheme is not limited to combining information on the same virtual